THERMOCHIMICA ACTA, VOLUME 169 (1990)

AUTHOR INDEX

An, X.W. 331
Antina, E.V. 103

Badelin, V.G. 81
Bao, T. 287
Barannikov, V.P. 103
Bastos, M. 339
Batov, D.V. 69
Bayer, G. 1

Cao, Z.H. 247
Chang, Y. 223
Chao, J.P. 161
Chen, G.H. 247
Chen, J. 287
Chen, Y.T. 121
Currell, B.R. 39

Dai, M. 161
Deng, Y. 223
Du, Y. 203

Gao, S. 311
Gitterman, M. 47

Han, B. 217
Han, S.J. 247
He, J. 331
Horder, J.R. 39
Hu, R. 217
Hu, R.H. 331
Huang, X.R. 209

Jiang, B.G. 209

Kinchin, A.N. 347
Koga, Y. 27
Kolker, A.M. 347
Korolyov, V.P. 57, 69
Krestov, G.A. 57, 69, 81, 95, 103, 111
Kulikov, O.V. 81

Ladbury, J.E.S.D. 39
Li, P. 301
Li, Y. 287
Li, Z. 185, 231, 287
Lin, R.S. 171
Liu, R. 185
Lu, H. 323

McKarns, T. 1
Mei, F. 203
Meng, L.Y. 263
Murakami, S. 193
Myasoyedova, V.V. 111

Ng, K. 339

Ogawa, H. 193
Oguni, M. 133
Okamoto, N. 133

Parsonage, J.R. 39
Pokrovsky, S.A. 111
Prusov, A.N. 95

Qu, S. 203

Radugin, M.V. 95
Rosenberg, A. 339

Safonova, L.P. 347
Shang, Y. 287
Shen, S. 231
Shi, J. 231, 239
Shi, M. 231
Siu, W.W.Y. 27
Sorai, M. 15
Su, J.Z. 271
Suga, H. 15, 133

Tan, Z.C. 15
Tong, Z. 323

Udzig, E. 81

Vandyshev, V.N. 57
Vatagin, V.S. 81
Vidgeon, E.A. 39
Vyugin, A.I. 103

Wadsö, I. 151, 339
Wang, R.Y. 239
Wang, Y.X. 161
Wiedemann, H.G. 1
Wong, T.Y.H. 27
Wu, D. 203

Xia, S. 311
Xiao, G. 311
Xie, W.H. 271
Xie, X.M. 271

Yamanaka, K. 193
Yan, H. 217
Yan, H.K. 209
Yan, W.D. 171
Yen, W.H. 171
Yin, J.Z. 209

Zakharov, A.G. 95
Zavyalov, N.A. 111
Zeng, X. 223
Zhan, D. 203
Zhang, L.Z. 247
Zhao, C. 323
Zheng, G. 301
Zhi, Y.Z. 263
Zhou, X. 301
Zielenkiewicz, A. 81
Zielenkiewicz, W. 81

THERMOCHIMICA ACTA, VOLUME 169 (1990)

SUBJECT INDEX

Acetonitrile,
partial molal volume of acetonitrile in mixtures of water and *t*-butyl alcohol at 278.15, 288.15 and 298.15 K 185
Alcohols,
thermochemistry of solvation of non-electrolytes in mono- and polyatomic alcohols and their mixtures with water 69
n-Alcohols,
studies on the thermodynamic properties of binary mixtures containing an alcohol. XIII. Excess molar enthalpies of some mixtures of *n*-alcohols with aniline or chlorobenzene at 298.15 K 161
2-Amino-2-methyl-1,3-propanediol,
heat capacity and phase transition of 2-amino-2-methyl-1,3-propanediol from 280 K to the melting point 263
Aniline,
studies on the thermodynamic properties of binary mixtures containing an alcohol. XIII. Excess molar enthalpies of some mixtures of *n*-alcohols with aniline or chlorobenzene at 298.15 K 161
Anisotropic solvents,
new resonance method for analyzing anisotropic solvents in solutions 47

Benzene,
excess molar isobaric heat capacities of mixtures of 2-propanone with heptane, benzene, and trichloromethane at 298.15 K 193
Benzene,
thermochemical characteristics of the near surroundings of tetraphenylporphin in benzene, pyridine and carbon tetrachloride 103
Benzene and its derivatives,
studies on the activity coefficient of benzene and its derivatives in aqueous salt solutions 271
Binary liquid systems,
excess enthalpies of seven binary liquid systems 171
Binary mixtures containing an alcohol,
studies on the thermodynamic properties of binary mixtures containing an alcohol. XIII. Excess molar enthalpies of some mixtures of *n*-alcohols with aniline or chlorobenzene at 298.15 K 161
Borate,
chemistry of borate in salt lake brine. XIV. Phase transition and kinetics of dehydration during heating of $MgO \cdot 3B_2O_3 \cdot nH_2O$ 311
tert.-Butanol,
vapour pressure of aqueous *tert.*-butanol in the water-rich region: transition in the mixing scheme 27
t-Butyl alcohol,
partial molal volume of acetonitrile in mixtures of water and *t*-butyl alcohol at 278.15, 288.15 and 298.15 K 185

Carbon tetrachloride,
thermochemical characteristics of the near surroundings of tetraphenylporphin in benzene, pyridine and carbon tetrachloride 103
Cellulose,
thermochemical characteristics of solutions of cellulose and its ethers and esters 111
Cellulose ethers and esters,
thermochemical characteristics of solutions of cellulose and its ethers and esters 111
Chlorobenzene,
studies on the thermodynamic properties of binary mixtures containing an alcohol. XIII. Excess molar enthalpies of some mixtures of *n*-alcohols with aniline or chlorobenzene at 298.15 K 161
Chlorocompounds,
study on the electrostatic interaction in organic chlorocompounds. Enthalpies of combustion and formation of 1,3- and 1,4-dichlorobutanes 331
CO_2,
solubility of CO_2 in a mixed solvent of *n*-octane and *i*-octane at elevated pressures 217

Dibenzo-30-crown-10,
a study of the thermodynamics of lanthanoid-crown coordination compounds. Calorimetric titration for coordination reaction of lanthanum perchlorate with dibenzo-30-crown-10 in water–acetonitrile 209
Dichlorobutanes,
study on the electrostatic interaction in organic chlorocompounds. Enthalpies of combustion and formation of 1,3- and 1,4-dichlorobutanes 331

Dimethylsulfoxide,
thermochemical characteristics of solvation of ions in mixtures of water with formamide, dimethylsulfoxide and hexamethylphosphoric triamide 57
Dyeing of fabric,
application of calorimetry to the studies on the processes of dyeing of fabric 95

Elastomeric materials,
application of DSC for the measurement of the thermal conductivity of elastomeric materials 39

Formamide,
thermochemical characteristics of solvation of ions in mixtures of water with formamide, dimethylsulfoxide and hexamethylphosphoric triamide 57

Heptane,
excess molar isobaric heat capacities of mixtures of 2-propanone with heptane, benzene, and trichloromethane at 298.15 K 193
Hexamethylphosphoric triamide,
thermochemical characteristics of solvation of ions in mixtures of water with formamide, dimethylsulfoxide and hexamethylphosphoric triamide 57
Hydroquinone,
studies of the reaction between laccase and hydroquinone by microcalorimetry 203

Isobar, isotherm and isopleth determination,
new double circulation apparatus for VLE determinations: establishment and applications in the determination of isobars, isotherms and isoplethes 247

Ketone–alcohol systems,
excess enthalpies of ketone–alcohol systems 323

Laccase,
studies of the reaction between laccase and hydroquinone by microcalorimetry 203
Lanthanoid-crown coordination compounds,
a study of the thermodynamics of lanthanoid-crown coordination compounds. Calorimetric titration for coordination reaction of lanthanum perchlorate with dibenzo-30-crown-10 in water–acetonitrile 209
Lanthanum perchlorate,
a study of the thermodynamics of lanthanoid-crown coordination compounds. Calorimetric titration for coordination reaction of lanthanum perchlorate with dibenzo-30-crown-10 in water–acetonitrile 209
Latent heats of vaporization,
a reference value method of the corresponding states principle for the prediction of latent heats of vaporization of pure liquids 239
α-$LiIO_3$,
heat capacity and thermodynamic properties of the non-linear optical material α-$LiIO_3$ crystal 15
Linear thermodynamic function relationships,
recent advances in linear thermodynamic function relationships 121
Liquids,
a reference value method of the corresponding states principle for the prediction of latent heats of vaporization of pure liquids 239
Liquid crystals,
order–disorder transformation in liquid crystals by gas–liquid chromatography 301
Liquid mixtures,
prediction of the surface tension of binary and multicomponent liquid mixtures by the UNIFAC group contribution method 231

$MgO \cdot 3B_2O_3 \cdot nH_2O$,
chemistry of borate in salt lake brine. XIV. Phase transition and kinetics of dehydration during heating of $MgO \cdot 3B_2O_3 \cdot nH_2O$ 311

Non-electrolytes,
thermochemistry of solvation of non-electrolytes in mono- and polyatomic alcohols and their mixtures with water 69

n-Octane and i-octane mixed solvent,
solubility of CO_2 in a mixed solvent of *n*-octane and i-octane at elevated pressures 217
Order–disorder transformation,
order–disorder transformation in lqiuid crytsals by gas–liquid chromatography 301

Peptides,
physico-chemical properties of peptides and their solutions 81
Poly(ethylene glycol)–water mixtures,
heat capacity of poly(ethylene glycol)–water mixtures: poly(ethylene glycol)–water interactions 339
Polymer fibers,
thermal characteristics of polymer fibers 1
2-Propanone,
excess molar isobaric heat capacities of mixtures of 2-propanone with heptane, benzene, and trichloromethane at 298.15 K 193

Protic solvents,
analysis of the thermodynamic characteristics of the solvation of ions in protic solvents at various temperatures using model concepts 347
Pyridine,
thermochemical characteristics of the near surroundings of tetraphenylporphin in benzene, pyridine and carbon tetrachloride 103

Reaction microcalorimetry,
recent developments in reaction and solution microcalorimetry 151

Salt lake brine,
chemistry of borate in salt lake brine. XIV. Phase transition and kinetics of dehydration during heating of $MgO \cdot 3B_2O_3 \cdot nH_2O$ 311
Second-order reactions,
studies of the thermokinetics of second-order reactions 223
Solution microcalorimetry,
recent developments in reaction and solution microcalorimetry 151
Solvation of ions,
analysis of the thermodynamic characteristics of the solvation of ions in protic solvents at various temperatures using model concepts 347
Solvation of ions,
thermochemical characteristics of solvation of ions in mixtures of water with formamide, dimethylsulfoxide and hexamethylphosphoric triamide 57
Solvation of non-electrolytes,
thermochemistry of solvation of non-electrolytes in mono- and polyatomic alcohols and their mixtures with water 69
Surface tension,
prediction of the surface tension of binary and multicomponent liquid mixtures by the UNIFAC group contribution method 231

Tetraphenylporphin,
thermochemical characteristics of the near surroundings of tetraphenylporphin in benzene, pyridine and carbon tetrachloride 103
Thiophene,
transition phenomena in the thiophene crystal 133
Tributyl phosphate extraction system,
prediction of phase equilibria in tributyl phosphate extraction system using the UNIFAC group contribution method 287
Trichloromethane,
excess molar isobaric heat capacities of mixtures of 2-propanone with heptane, benzene, and trichloromethane at 298.15 K 193

UNIFAC group contribution method,
prediction of phase equilibria in tributyl phosphate extraction system using the UNIFAC group contribution method 287
UNIFAC group contribution method,
prediction of the surface tension of binary and multicomponent liquid mixtures by the UNIFAC group contribution method 231

VLE determination,
new double circulation apparatus for VLE determination: establishment and applications in the determination of isobars, isotherms, and isoplethes 247

Water,
partial molal volume of acetonitrile in mixtures of water and *t*-butyl alcohol at 278.15, 288.15 and 298.15 K 185
Water,
thermochemical characteristics of solvation of ions in mixtures of water with formamide, dimethylsulfoxide and hexamethylphosphoric triamide 57
Water,
thermochemistry of solvation of non-electrolytes in mono- and polyatomic alcohols and their mixtures with water 69